

SAE G-12 FLUIDS SUBCOMMITTEE MEETING
MONTREAL, NOVEMBER 2015
AS5900 STANDARD UPDATE

LABORATOIRE INTERNATIONAL
DES MATÉRIAUX ANTIGIVRE



ANTI-ICING MATERIALS INTERNATIONAL LABORATORY

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AS5900 Update

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Standard Test Method for Aerodynamic Acceptance of SAE AMS 1424 & 1428 Aircraft De/Anti-icing Fluids

AS5900 Update

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- Version B remains the current document
- Revised in 2007
- General changes made for « Version C » since 2007 with the Aerodynamic Working Group (AWG)

AS5900 Update – Next revision

4

- Some minor editorial changes
 - General improvement of wording and formatting
 - Updated tables and figures
 - Information removed from the Scope, placed in a new section (General Information), to reduce scope and correspond to SAE guide document

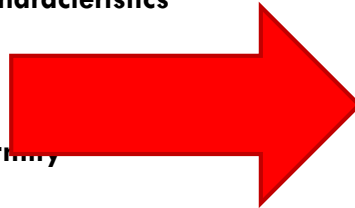
AS5900 Update – Next revision

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□ Reorganisation of section 4

4.TEST FACILITY REQUIREMENTS

- 4.1 Test Duct Description
 - 4.1.1 Dimensions
 - 4.1.2 Tolerances
 - 4.1.3 Design Features
- 4.2 Test Duct Gas Flow Core Characteristics
 - 4.2.1 Test Gas
 - 4.2.2 Temperature Range
 - 4.2.3 Temperature Stability
 - 4.2.4 Temperature Spatial Uniformity
 - 4.2.5 Velocity Range
 - 4.2.6 Turbulence
 - 4.2.7 Velocity Spatial Uniformity
 - 4.2.8 Relative Humidity
- 4.3 Test Facility Thermal Stability
 - 4.3.1 Test Duct
 - 4.3.2 Test Facility
- 4.4 Test Facility Drainage
- 4.5 Instrumentation
 - 4.5.1 Temperature and Relative Humidity
 - 4.5.2 Test Duct Gas Pressures
 - 4.5.3 Test Duct Gas Velocity and Turbulence
- 4.6 Example Facility



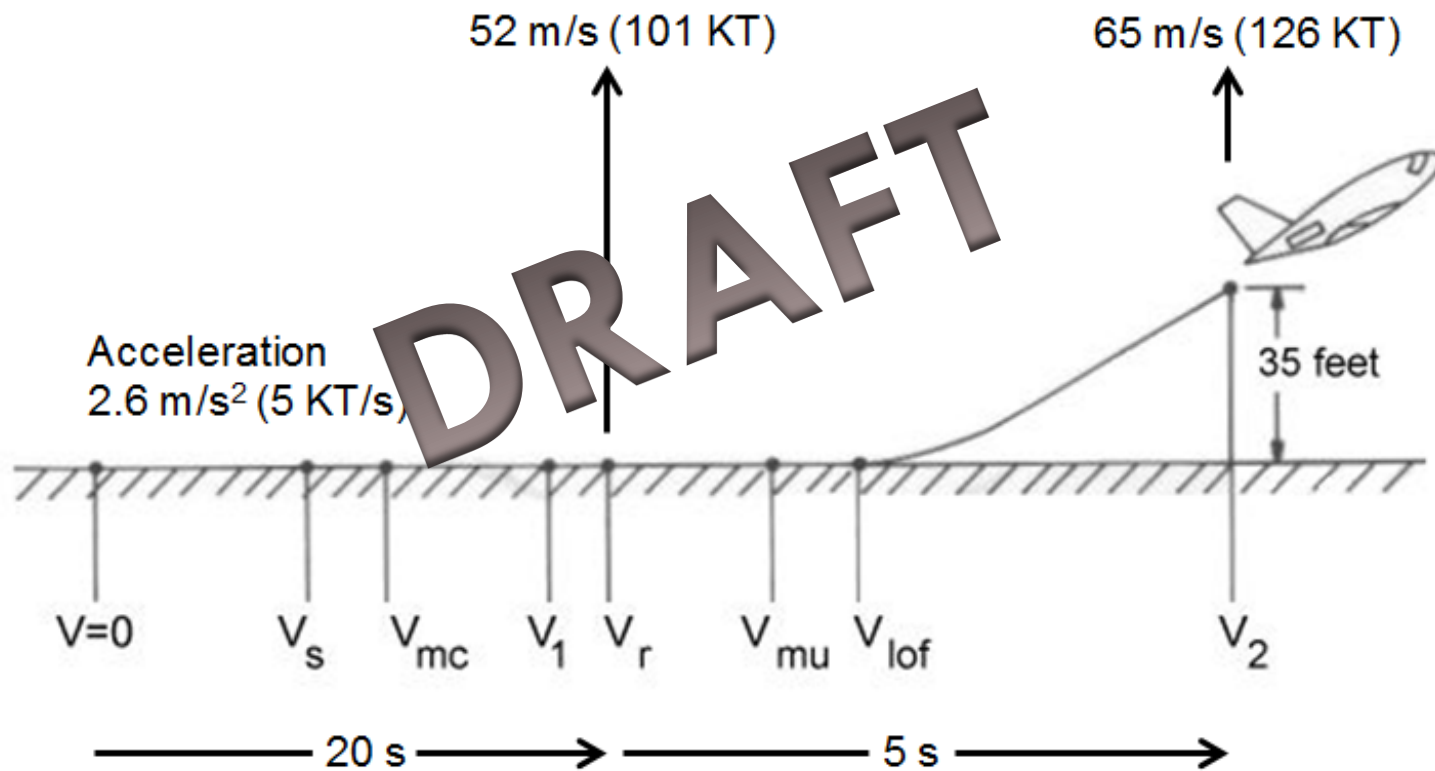
4.TEST FACILITY REQUIREMENTS

- 4.1 Calibration and Test Equipment
- 4.2 Test Duct Description
 - 4.2.1 Material
 - 4.2.2 Dimensions
 - 4.2.3 Tolerances
 - 4.2.4 Design Features
- 4.3 Test Duct Gas Flow Core Characteristics
 - 4.3.1 Test Gas
 - 4.3.2 Gas Temperature
 - 4.3.3 Gas Pressures
 - 4.3.4 Gas Velocity
 - 4.3.5 Relative Humidity
- 4.4 Test Fluid Temperature Measurement
- 4.5 Test Facility Drainage
- 4.6 Example Facility

AS5900 Update – Next revision

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- Figures which explain speeds for tests



AS5900 Update – Next ballot

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« Version C » is almost ready for ballot, final verification and validation with the AWG.

Comments or suggestions?

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